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1. Location:

The power plant is in Roznow, north of Nowy Sacz, south of Tarnow (R 51/Z 94) on the Dunajec River. The Dunajec River is dammed up at this place.

2. Plant installation:

The power plant is built into the storage dam. The installations consist of four hydro-power generators (two 12,600 kw generators and two 12,500 kw generators). The two last of these generators are interconnected and supply, each over a 16 MVA transformer, the 150 KV transmission system at the bottom of the valley next to the power plant. The other two generators are operated on a 6 KV busbar (collecting line) supplying three transformers. Most of the hydro-power is conducted over a 150 KV transmission line to Mosice about 40 km to the north. This line is continued to Starachowice (about 100 km). Another part of the power supply of the Roznow Power Plant is also conducted to Mosice over a 30 KV line. This line is also supplied by the small Dunajec Power Plant in Czchow (R 50/Z 07).

5. The Roznow Power Plant has the following switchgears:

- Switchgears for four generators including a 6 KV busbar
- 150 KV overhead transmission system with double busbars
- 2 transformer branches
- 1 overhead line branch
- 1 connecting switchgear branch
- 1 6/30 KV indoor station with three transformer branches
- 1 6 KV feed line from the generators

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1 30 KV overhead line branch to Mosice.

4. The plant was put into operation in 1942. It allegedly did not suffer any war damages.

☐ Comment:

a. The storage basin and the Roznow Power Plant are 25 km north of Nowy Sacz at a river bend above the Lososana Rivulet.

b. Length of the reservoir: 21 km

Surface area: 4,500 acres

Maximum height of dam: 31.5 meters

Total capacity: 228 million cubic meters

Flood protection space (- 11.5 meters): 116 million cubic meters

Largest extension of storage dam: 550 meters

Greatest height of storage dam (from foundation base): 49 meters.

The storage dam consists of 36 blocks, each 15 meters wide. The power plant is built into five blocks. Seven blocks serve as flood overfall. Their crest is 6 meters below the maximum height of damming. Each of these blocks has 12 meters of overfall width.

c. The construction of the Czchow Compensation Power Plant 12 km below the Roznow storage dam was started in 1942. According to the building plan, the height of the storage dam was allegedly 9 meters and the capacity of the compensation reservoir about 15 million cubic meters. The projected power plant was scheduled to have an installed capacity of 10,000 KW. This report indicates that the power plant project started by the Germans in 1942 has meanwhile been completed.

d. The sides of the Roznow reservoir are not safe, as the ground rising over the compact sandstone consists of conglomerates (clay slate layers alternating with sandstone layers). Landslides occurred on the right slope beyond the reservoir during construction. The left side is said also to be permeable to water. Because of this insecure condition the storage installation was not fully utilized during the German occupation. The output then was only 6,000 KW.

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